

#4
JL
08/08/02
GPO 12166

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of  : Brittain, Jean H. et al.

Serial No. : 09/681,420

Filing Date : March 30, 2001

Title : *Method and Apparatus of Acquiring Large FOV Images Without Slab-Boundary Artifacts*

Group Art No. : 2166

Examiner :

Attorney Docket No. : GEMS8081.059

RECEIVED
AUG 06 2002
GROUP 3600

CERTIFICATION UNDER 37 CFR 1.8(a) and 1.10

I hereby certify that, on the date shown below, this correspondence is being:

Mailing

deposited with the United States Postal Service in an envelope addressed to the Assistant Commissioner for Patents, Washington, D.C. 20231

37 CFR 1.8(a)
with sufficient postage as first class mail

transmitted by facsimile to Fax No.:

37 CFR 1.10

As "Express Mail Post Office to Addressee" Mailing Label No. _____
Transmission
addressed to Examiner at the Patent and Trademark Office.

Date: 7-26-02

Jean C. Jordan
Signature

Commissioner of Patents and Trademarks
Washington, D.C. 20231

SUPPLEMENTAL (SECOND)
INFORMATION DISCLOSURE STATEMENT
UNDER 37 C.F.R. §1.97/99

Dear Sir:

In compliance with Applicants' duty of disclosure as set forth in 37 C.F.R. §1.56, listed on the attached equivalent to Form PTO-1449 are those patents, publications, and other

information known to the Applicant(s) which may be considered material to the patentability of the claims of the above-captioned application. One copy of each reference is attached.

Applicants would like to make the Examiner aware that the following pending U.S. patent applications might be considered relevant to the examination of this application:

U.S. Ser. No. 09/292,548 filed April 15, 1999;

U.S. Ser. No. 10/098,013 filed March 13, 2002;

U.S. Ser. No. 09/591,300 filed June 9, 2000;

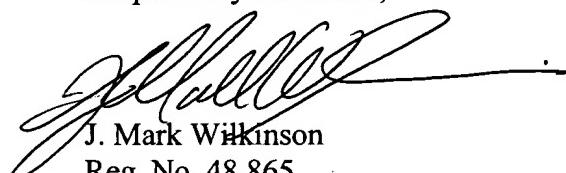
U.S. Ser. No. 10/063,829 filed May 16, 2002;

U.S. Ser. No. 10/147,701 filed May 17, 2002; and

U.S. Ser. No. 09/595,117 filed June 16, 2000.

The Applicants respectfully request that the documents listed on the attached equivalent to Form PTO-1449 be considered by the Examiner, that the references be made of record in the present application, and that an initialed copy of the duplicate equivalent to Form PTO-1449 be returned to the undersigned in accordance with MPEP 609.

Respectfully submitted,



J. Mark Wilkinson
Reg. No. 48,865

Date: July 26, 2002

P.O. ADDRESS:

Cook & Franke, S.C.
660 East Mason Street
Milwaukee, Wisconsin 53202
(414) 271-5900

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

Substitute for form 1449A/PTO		Complete if Known	
		Application Number	09/681,420
		Filing Date	3/30/2001
		First Named Inventor	Brittain et al.
		Art Unit	
		Examiner Name	
Sheet	1	of	2
		Attorney Docket Number	
		GEMS8081.059	

SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(use as many sheets as necessary)

U.S. PATENT AND TRADEMARK OFFICE

AUG 01 2002
SC 25

Examiner Signature		Date Considered	
-----------------------	--	--------------------	--

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

¹Applicant's unique citation designation number (optional). ²See Kinds Codes of USPTO Patent Documents at www.uspto.gov or MPEP 901.04. ³Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁴For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁵Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. ⁶Applicant is to place a check mark here if English language Translation is attached.

under WIPO Standard ST. 16 if possible. *Applicant is to place a check mark here if English language Translation is attached.
Burden Hour Statement: This form is estimated to take 2.0 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner for Patents, Washington, DC 20231.

Substitute for form 1449B/PTO

**SUPPLEMENTAL
INFORMATION DISCLOSURE
STATEMENT BY APPLICANT**
(use as many sheets as necessary)

Sheet

2

of

2

AUG 01 2002

JC25
SEARCHED
INDEXED
MAILED**Complete if Known**

Application Number	09/681,420
Filing Date	3/30/2001
First Named Inventor	Brittain et al.
Group Art Unit	
Examiner Name	

GEMS8081.059

RECEIVED
AUG 06 2002
GROUP 3600

OTHER PRIOR ART – NON PATENT LITERATURE DOCUMENTS

Examiner Initials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	¹ 2
	C1	Moran, PR. A flow velocity zeugmatographic interface for NMR imaging in humans. Magnetic Resonance Imaging 1982; 1: 197-203.	
	C2	Bryant DJ, Payne JA, Firmin DN, and Longmore DB. Measurement of flow with NMR imaging using a gradient pulse and phase difference technique. J Comput Assist Tomogr 1984; 8: 588-93.	
	C3	Van Dijk P. Direct cardiacl NMR imaging of heart wall and blood flow velocity. J. Comput Assist Tomogr 1984; 8: 429-36.	
	C4	Nayler GL, Firmin DN, and Longmore DB. Blood flow imaging by cine magnetic resonance. J Comput Assist Tomogr 1986; 10: 715-22.	
	C5	Swan JS, Grist TM, Weber DM, Sproat IA, and Wojtowycz MM. MR angiography of the pelvis with variable velocity encoding and a phase-array coil. Radiology 1994; 190: 363-9.	
	C6	Swan JS, Weber DM, Grist TM, Wojtowycz MM, Korosec FR, and Mistretta CA. Peripheral MR angiography with variable velocity encoding. Work in progress. Radiology 1992; 813-7.	
	C7	Ehman RL, Felmlee JP. Adaptive technique for high definition MR imaging of moving structures. Radiology 1998; 173: 255-263.	
	C8	Ho KY, Leiner T, de Haan MW, Kessels AG, Kitslaar PF, and van Engelshoven JM. Peripheral vasculature tree stenoses: evaluation with moving-bed infusion-tracking MR angiography. Radiology 1998; 206: 683-92.	
	C9	Meaney JF, Ridgway JP, Chakraverty S, Robertson I, Kessel D, Radjenovic A, Kouwenhoven M, Kassner A, and Smith MA. Stepping-table gadolinium-enhanced digital subtraction MR angiography of the aorta and lower extremity arteries; preliminary experience. Radiology 1999; 211: 59-67.	
	C10	Foo, TKF, Saranathan M, Prince MR, and Chenevert TL. Automated detection of bolus arrival and initiation of data acquisition in fast, three-dimensional, gadolinium-enhanced MR angiography. Radiology 1997; 203: 275-80.	
	C11	Wilman AH, Riederer SJ, Huston J, 3 rd , Wald JT, and Debbins JP. Arterial phase carotid and vertebral artery imaging in 3D contrast-enhanced MR angiography by combining fluoroscopic triggering with an elliptical centric acquisition order. Magn. Reson Med. 1998; 40: 24-35.	
	C12	Riederer SJ, Fain SB, Kruger DG, and Busse RF. 3D-enhanced MR angiography using fluoroscopic triggering and an elliptical centric view order. Int. J. Card Imaging 1999; 15: 117-29.	
	C13	Prince MR, Chenevert TL, Foo TKF, Lonyd FJ, Ward JS, Maki JH. Contrast enhanced abdominal MR angiography: Optimization of imaging delay time by automating the detection of contrast material arrival in the aorta. Radiology 1997; 203: 109-114.	
	C14	Meany, Dr. James FM, Leeds General Infirmary, Leeds UK Moving Bed MRA, The Future of Peripheral Arteriography? Phillips	
	C15	Kouwenhoven, M., MRA with moving bed imaging, IX International Workshop on Magnetic Resonance Angiography and Introductory Course "New Horizons on MRA and CTA", Valencia, October 7-11, 1997, Book of Abstracts, <i>The MR Angio Club</i> , p. 158.	
	C16	Kruger, DG., Riederer, S.J., Grimm, R.C., Rossman, P.J., Continuously moving table data acquisition method for long FOV contrast-enhanced MRA and whole-body MRI. Magnetic Resonance in Medicine, 47: 224-231 (2002)	

Examiner Signature

Date Considered